

U. S. DEPARTMENT OF AGRICULTURE.
OFFICE OF EXPERIMENT STATIONS.

W. O. ATWATER, DIRECTOR.

EXPERIMENT STATION BULLETIN No. 5.

ORGANIZATION LISTS
OF THE
AGRICULTURAL EXPERIMENT STATIONS
AND
AGRICULTURAL SCHOOLS AND COLLEGES
IN THE
UNITED STATES.

MARCH, 1890.

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1890.

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LETTER OF TRANSMITTAL.

U. S. DEPARTMENT OF AGRICULTURE,
OFFICE OF EXPERIMENT STATIONS,
Washington, D. C., March 5, 1890.

SIR: I have the honor to transmit herewith for publication, Experiment Station Bulletin No. 5 of this office, containing (1) a list of the governing boards and station staffs of the experiment stations of the United States; and (2) a list of the faculties of the agricultural schools and colleges of the country, with brief statements of their courses of study. The former is a revision of the list included in Experiment Station Bulletin No. 1 of this office; the latter has been added in response to a resolution of the Association of American Agricultural Colleges and Experiment Stations.

Respectfully,

W. O. ATWATER,
Director.

Hon. J. M. RUSK,
Secretary of Agriculture.

INTRODUCTION.

The organization list of experiment stations in the United States included in Experiment Station Bulletin No. 1 of this office has been found to supply an important need of station workers and others, and is accordingly revised and corrected to date. Among the more noteworthy changes of the year will be noticed the organization of three new stations—in Arizona, New Mexico, Utah, and North Dakota; the formation of two additional branch stations in Alabama; changes in the directorships of the Georgia, Michigan, Minnesota, Missouri, Nebraska, and Nevada Stations; and the vacancy in the directorship of the New Jersey Stations caused by the death of Prof. George H. Cook. In the case of the Kansas Station the office of director has been abolished.

In the bulletin above mentioned was inserted a list of the agricultural schools and colleges of the country with locations, names of chief officers, and dates of organization. In response to a request of the Association of American Agricultural Colleges and Experiment Stations, expressed at their annual meeting in Washington, D. C., in November, 1889, the scope of this list has been enlarged so as to include a brief statement of the courses of study of the several schools and colleges of this class, together with the names of the instructors employed in each and their respective departments of instruction. It is hoped that this list will serve not only as an aid to co-operation, but also as a convenient means of access to a most important medium for the dissemination of agricultural information. It seems necessary to add that certain questions incapable of more than approximate solution render this portion of the bulletin in a large measure tentative. It remains, therefore, for those for whom it is intended to suggest such modifications of its plan as will render it most serviceable in future issues.

INTRODUCTION

The organization of the present volume is in the first place intended to be a practical one, and to be of use to the student in his studies. It is not a treatise on the history of the world, nor a collection of facts and dates, but a book which will help the student to understand the world as it is, and to see the forces which are at work in it. The book is divided into two parts, the first of which deals with the physical world, and the second with the human world. The first part is divided into three sections, the first of which deals with the earth, the second with the atmosphere, and the third with the water. The second part is divided into two sections, the first of which deals with the human body, and the second with the human mind. The book is written in a simple and straightforward manner, and is intended to be a guide for the student in his studies. It is not a book of facts, but a book of ideas, and it is intended to help the student to see the world as it is, and to understand the forces which are at work in it.

LIST OF EXPERIMENT STATIONS IN THE UNITED STATES, WITH GOVERNING BOARDS AND STATION STAFFS.

ALABAMA.

AGRICULTURAL EXPERIMENT STATION OF THE AGRICULTURAL AND MECHANICAL COLLEGE OF ALABAMA.

Department of the Agricultural and Mechanical College of Alabama.
Location, Auburn. Director, J. S. Newman.

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Isaac Ross, Assistant Agriculturist, in charge of Live Stock and Dairy.
James Clayton, Second Assistant Agriculturist.
J. T. Anderson, Ph. D., First Assistant Chemist.
L. W. Wilkinson, M. S., Second Assistant Chemist.
P. L. Hutchinson, Third Assistant Chemist.
A. M. Lloyd, B. S., Assistant Botanist.
Mail for the Station should be addressed to the Director at Auburn.

CANEBAKE AGRICULTURAL EXPERIMENT STATION.

Location, Uniontown. Director, J. S. Newman.
Assistant Director in Charge, W. H. Newman, M. S.

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STATION STAFF.

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W. H. Newman, M. S., Assistant Director in Charge and Secretary of the Board,
Uniontown.

Mail for the Station should be addressed to Canebrake Station, Uniontown.

NORTH ALABAMA BRANCH AGRICULTURAL EXPERIMENT STATION.

Location, Athens.

Director, C. L. Newman, B. S.

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STATION STAFF.

C. L. Newman, B. S., Director.

T. D. Sanford, B. S., Vice-Director.

Mail for the Station should be addressed to the Director at Athens.

SOUTHEAST ALABAMA AGRICULTURAL EXPERIMENT STATION.

Location, Abbeville.

Director, T. M. Watlington, B. S.

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S. P. Bradley, Secretary, Abbeville.

STATION STAFF.

T. M. Watlington, Director.

William Collins, Foreman.

Mail for the Station should be addressed to the Director at Abbeville.

ARIZONA.

AGRICULTURAL EXPERIMENT STATION OF THE UNIVERSITY OF ARIZONA.

Department of the University of Arizona.

Location, Tucson.

Director, Selim M. Franklin, Ph. B.

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ARKANSAS.

ARKANSAS AGRICULTURAL EXPERIMENT STATION.

Department of Arkansas Industrial University.

Location, Fayetteville.

Director, A. E. Menke, D. Sc.

Substations at Pine Bluff and Newport.

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W. F. Bates, Assistant Agriculturist, Fayetteville.

Mail for the Station should be addressed to the Director.

CALIFORNIA.

AGRICULTURAL EXPERIMENT STATION OF THE UNIVERSITY OF CALIFORNIA.

Department of the University of California.

Location, Berkeley.

Director, E. W. Hilgard, Ph. D., LL. D.

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For San Joaquin Valley.—Location, Tulare. Patron, B. F. Moore, Tulare; Foreman, Julius Forrer.

For Sierra Foot-hill Region.—Location, Jackson. Patron, Hon. A. Caminetti, Jackson; Foreman, George Hansen.

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For East Side Santa Clara Valley.—Location, Mission San José. Patron, John Gallegos, Mission San José.

All correspondence should be addressed to the Station at Berkeley.

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AGRICULTURAL EXPERIMENT STATION.

Department of the State Agricultural College.

Location, Fort Collins.

Director, Charles L. Ingersoll, M. S.

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Mail for the Station should be addressed to the Director.

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Director, Samuel W. Johnson, M. A.

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Mail should be addressed to the Station.

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Connected with Storrs Agricultural School.

B. F. Koons, Ph. D., Principal.

Location, Storrs.

Director, W. O. Atwater, Ph. D.

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Mail for the Station should be addressed to Agricultural Experiment Station, Storrs, Conn.

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THE DELAWARE COLLEGE AGRICULTURAL EXPERIMENT STATION.
 Department of Delaware College.

Location, Newark. Director, Arthur T. Neale, Ph. D.

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Mail for the Station should be addressed to the Director.

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AGRICULTURAL EXPERIMENT STATION OF FLORIDA.

Department of Florida State Agricultural and Mechanical College.
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Mail for the Station to be addressed to the Director.

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GEORGIA EXPERIMENT STATION.

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 Gustave Speth, Horticulturist and Secretary, Experiment.

Mail for the Station should be addressed to Experiment Station, Experiment, Ga.

ILLINOIS.

AGRICULTURAL EXPERIMENT STATION OF THE UNIVERSITY OF ILLINOIS.

Department of the University of Illinois.

Location, Champaign. Director, Selim H. Peabody, Ph. D., LL. D.

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 Thomas F. Hunt, B. S., Assistant Agriculturist.
 George W. McCluer, B. S., Assistant Horticulturist.
 Edward H. Farrington, M. S., Assistant Chemist.

Mail for the Station should be addressed to the Director.

INDIANA.

AGRICULTURAL EXPERIMENT STATION OF INDIANA.

Department of Purdue University.

Location, La Fayette. Director, Horace E. Stockbridge, Ph. D.

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 H. L. Bolley, M. S., Assistant Botanist.

Mail for the Station should be addressed to the Director.

IOWA.

IOWA AGRICULTURAL EXPERIMENT STATION.

Department of Iowa State College of Agriculture and Mechanic Arts.
 Location, Ames. Director, R. P. Speer.

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 C. M. Wade, B. S., Assistant Chemist.
 ———, Botanist.
 C. P. Gillette, M. S., Entomologist.
 Alfred A. Bennett, M. S., Chemist (special work).
 L. H. Pammel, B. Agr., Botanist (special work).
 J. L. Budd, M. H., Horticulturist (special work).
 Loren P. Smith, M. S., Agriculturist (special work).
 M. Stalker, M. S., V. S., Veterinarian (special work).

Mail for the Station should be addressed to the Director.

KANSAS.

KANSAS AGRICULTURAL EXPERIMENT STATION.

Department of Kansas State Agricultural College.
 Location, Manhattan. Chairman of Station Council, George T. Fairchild, M. A.

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 Henry M. Cottrell, M. S., in Agriculture.
 William Shelton, Foreman of Farm.

Mail for the Station should be addressed to the Secretary, I. D. Graham, B. S.

KENTUCKY.

KENTUCKY AGRICULTURAL EXPERIMENT STATION.

Department of the Agricultural and Mechanical College of Kentucky.
 Location, Lexington. Director, M. A. Scovell, M. S.

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STATION STAFF.

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Mail for the Station should be addressed to the Director, Lexington, Ky.

LOUISIANA.

No. 1. SUGAR EXPERIMENT STATION, AUDUBON PARK, NEW ORLEANS.

No. 2. STATE EXPERIMENT STATION, BATON ROUGE.

No. 3. NORTH LOUISIANA EXPERIMENT STATION, CALHOUN.

Department of Louisiana State University and Agricultural and Mechanical College.

Location of Stations: No. 1, Audubon Park, New Orleans; No. 2, Baton Rouge; No. 3, Calhoun.

Director, William C. Stubbs, Ph. D.

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William Garig, Vice-President Board of Supervisors of University, Baton Rouge.

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Sugar Experiment Station, No. 1.

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Department of State College of Agriculture and the Mechanic Arts.

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Mail for the Station should be addressed to the Director.

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Department of the Massachusetts Agricultural College.

Location, Amherst.

Director, Henry H. Goodell, M. A.

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MISSOURI AGRICULTURAL COLLEGE EXPERIMENT STATION.

Department of Missouri Agricultural College, University of the State of Missouri.

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NEVADA AGRICULTURAL EXPERIMENT STATION.
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NEW JERSEY STATE AGRICULTURAL EXPERIMENT STATION.

At Rutgers College.

Location, New Brunswick. Acting Director, Merrill E. Gates, Ph. D., LL. D.

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AGRICULTURAL EXPERIMENT STATION OF NEW MEXICO.

Department of Agricultural College of New Mexico.

Location, Las Cruces.

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Department of Cornell University.

Location, Ithaca.

Director, Isaac Phillips Roberts, M. Agr.

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NORTH CAROLINA AGRICULTURAL EXPERIMENT STATION.

Location, Raleigh.

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NORTH DAKOTA AGRICULTURAL EXPERIMENT STATION.

Department of North Dakota Agricultural College.

Location, Fargo.

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OREGON EXPERIMENT STATION.

Department of Oregon State Agricultural College.

Location, Corvallis.

Director, E. Grimm, B. S.

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Mail for the Station should be addressed to the Director.

PENNSYLVANIA.

THE PENNSYLVANIA STATE COLLEGE AGRICULTURAL EXPERIMENT STATION.

Department of the Pennsylvania State College.

Location, State College, Center County.

Director, H. P. Armsby, Ph. D.

Telegraph address, State College. Express station, Lemont.

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Mail for the Station should be addressed to the Director.

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RHODE ISLAND STATE AGRICULTURAL EXPERIMENT STATION.

Department of Rhode Island State Agricultural School.

Location, Kingston.

Director, Charles O. Flagg, B. S.

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Mail for the Station should be addressed to Agricultural Experiment Station, Kingston.

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SOUTH CAROLINA AGRICULTURAL EXPERIMENT STATION.

Department of the University of South Carolina.

Location, Columbia. Director, John M. McBryde, Ph. D., LL. D.

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SOUTH DAKOTA AGRICULTURAL EXPERIMENT STATION.

Department of South Dakota Agricultural College.

Location, Brookings.

Director, Lewis McLouth, Ph. D.

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Department of the University of Tennessee.

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TEXAS AGRICULTURAL EXPERIMENT STATION.

Department of Agricultural and Mechanical College of Texas.
 Location, College Station. Director, F. A. Gulley, M. S.

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Mail for the Station should be addressed to the Director.

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AGRICULTURAL EXPERIMENT STATION OF UTAH.

Department of the Agricultural College of Utah.

Location, Logan.

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STATE AGRICULTURAL EXPERIMENT STATION.

Department of University of Vermont and State Agricultural College.

Location, Burlington.

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VIRGINIA AGRICULTURAL AND MECHANICAL COLLEGE EXPERIMENT STATION.

Department of Virginia Agricultural and Mechanical College.

Location, Blacksburg.

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Department of West Virginia University.

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Mail for the Station should be addressed to the Director.

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AGRICULTURAL EXPERIMENT STATION OF THE UNIVERSITY OF WISCONSIN.

Department of University of Wisconsin.

Location, Madison.

Director, W. A. Henry, B. Agr.

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LIST OF AGRICULTURAL SCHOOLS AND COLLEGES IN THE UNITED STATES, WITH COURSES OF STUDY AND BOARDS OF INSTRUCTION.

ALABAMA.

AGRICULTURAL AND MECHANICAL COLLEGE, ALABAMA POLYTECHNIC INSTITUTE.
Location, Auburn. President, William LeRoy Broun, LL. D.

COURSES OF STUDY.

The courses of study are five. Three of these require four years each for completion and lead to the degree of Bachelor of Science: Course in Chemistry and Agriculture, Course in Mechanics and Engineering, and General Course. The remaining two courses require two years each and lead to a certificate: Two Years' Course in Agriculture and Two Years' Course in Mechanic Arts.

FACULTY.

William LeRoy Broun, LL. D., President and Professor of Physics and Astronomy.
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Patrick Hues Mell, jr., M. E., Ph. D., Professor of Natural History and Geology.
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Arthur St. Charles Dunstan, Assistant in Physics and Mathematics.
M. Downer Page, Assistant in English and Mathematics.
John Hodges Drake, M. D., Surgeon.

NORTH ALABAMA AGRICULTURAL SCHOOL.

Location, Athens. Principal, C. L. Newman, B. S.

COURSE OF STUDY.

The course of study is preparatory to the Alabama Agricultural and Mechanical College, including also the work of the first college year.

FACULTY.

C. L. Newman, B. S., Principal, Professor of Agricultural Science.
 T. D. Samford, B. S., Commandant, and Professor of English and Mathematics.
 W. R. Hanserd, jr., Professor of Latin and in charge of Preparatory Department.

SOUTHEAST ALABAMA AGRICULTURAL SCHOOL.

Location, Abbeville. Principal, Joseph S. Espy, M. A.

COURSE OF STUDY.

The course of study is preparatory to the Alabama Agricultural and Mechanical College, including also the work of the first college year.

FACULTY.

Joseph S. Espy, M. A., Principal.
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 Miss D. McNulty, M. A., Teacher of Languages.
 Miss M. McAllister, Teacher of Primary Department.
 Miss G. L. Finnerty, Teacher of Music.

ARIZONA.

UNIVERSITY OF ARIZONA.

Location, Tucson. President, Merrill P. Freeman.

COURSE OF STUDY.

The school is of recent organization and courses of study are not yet arranged.

FACULTY.

Selim M. Franklin, Ph. B., Professor of Agriculture.

ARKANSAS.

ARKANSAS INDUSTRIAL UNIVERSITY.

Location, Fayetteville. President, Edward Hunter Murfee, LL. D.

COURSES OF STUDY.

The courses of study are eight, entrance to each requiring two years of preparatory work: Agricultural Course, requiring four years and leading to the degree of Bachelor of Scientific Agriculture; Short Agricultural Course, requiring two years, and leading to no degree; Mechanical Engineering Course, requiring four years and leading to the degree of Mechanical Engineer; Manual Training Course, requiring two years and leading to no degree; Civil Engineering Course, requiring four years and leading to the degree of Civil Engineer; Scientific Course, requiring four years and leading to the degree of Bachelor of Science; Classical Course, requiring four years and leading to the degree of Bachelor of Arts; Normal Course, requiring two years and leading to a certificate of Licentiate of Instruction. The University also offers three post-graduate courses leading respectively to the degrees, Master of Arts, Master of Science, and Doctor of Philosophy.

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CALIFORNIA.

COLLEGE OF AGRICULTURE OF THE UNIVERSITY OF CALIFORNIA.

Location, Berkeley.

President, Horace Davis, LL. D.

COURSE OF STUDY.

The course of study requires four years for completion and leads to the degree of Bachelor of Science. Special students are received.

FACULTY.

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 Louis Paparelli, Lic. Agr., in the Viticultural Laboratory.
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COLORADO.

STATE AGRICULTURAL COLLEGE OF COLORADO.

Location, Fort Collins. President, Charles Lee Ingersoll, M. S.

COURSES OF STUDY.

The courses of study are two, each requiring two years in addition to three years of preparatory work, and leading to the degree of Bachelor of Science: the Agricultural Course and the Mechanical Course.

FACULTY.

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CONNECTICUT.

SHEFFIELD SCIENTIFIC SCHOOL OF YALE UNIVERSITY.

Location, New Haven. President, Rev. Timothy Dwight, D. D., LL. D.

COURSES OF STUDY.

Courses of instruction occupying three years and leading to the degree of Bachelor of Philosophy are arranged to suit the requirements of students. The first year's work is the same for all; for the last two years the instruction is chiefly arranged in spe-

cial courses. Those most distinctly marked out are the following: in Chemistry; in Civil Engineering; in Mechanical Engineering; in Agriculture; in Natural History; in Biology preparatory to Medical studies; in studies preparatory to Mining and Metallurgy; in select studies preparatory to other higher studies. Under certain conditions the degrees of Civil Engineer and Mechanical (or Dynamical) Engineer are conferred on Bachelors of Philosophy who have taken the first degree in Engineering study and who pursue a higher course under the direction of the Governing Board of the School for at least two years.

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 George J. Brush, LL. D., Director and Professor of Mineralogy.
 Rev. Chester S. Lyman, M. A., Professor of Astronomy, Emeritus.
 William D. Whitney, Ph. D., LL. D., Professor of Comparative Philology.
 Samuel W. Johnson, M. A., Professor of Theoretical and Agricultural Chemistry.
 William H. Brewer, Ph. D., Professor of Agriculture.
 John E. Clark, M. A., Professor of Mathematics.
 Daniel C. Eaton, M. A., Professor of Botany.
 Charles B. Richards, M. A., Professor of Mechanical Engineering.
 Thomas R. Lounsbury, M. A., Professor of English.
 Addison E. Verrill, M. A., Professor of Zoology and Instructor in Geology.
 Sidney I. Smith, M. A., Professor of Comparative Anatomy.
 William G. Mixter, M. A., Professor of Chemistry.
 A. Jay DuBois, C. E., Ph. D., Professor of Civil Engineering.
 Charles S. Hastings, Ph. D., Professor of Physics.
 Henry W. Farnam, M. A., R. P. D., Professor of Political Economy.
 Russel H. Chittenden, Ph. D., Professor of Physiological Chemistry.

Additional Instructors.

Albert S. Wheeler, M. A., Instructor in German.
 William I. Knapp, Ph. D., Professor of French.
 Mark Bailey, M. A., Instructor in Elocution.
 John H. Niemeyer, M. A., Professor of Drawing.
 Frederic R. Honey, Ph. B., Instructor in Descriptive Geometry and Projection Drawing.
 Thomas W. Mather, D. E., Instructor in Mechanical Engineering.
 William T. Strong, M. A., Instructor in French.
 Lieut. Charles A. L. Totten, M. A., Professor of Military Science and Tactics, detailed by the United States Government.
 Samuel L. Penfield, Ph. B., Assistant Professor of Mineralogy.
 Alton W. Leighton, M. D., Assistant in Drawing.
 Horace L. Wells, Ph. B., Assistant Professor of Analytical Chemistry.
 Samuel E. Barney, C. E., Instructor in Mathematics and Civil Engineering.
 William J. Comstock, Ph. B., Instructor in Organic Chemistry.
 Eugène Bergeron, Instructor in French.
 Herbert DeW. Carrington, Ph. B., Instructor in German.
 Oliver C. Farrington, M. S., Assistant in Biology.
 Erwin S. Sperry, Ph. B., Assistant in Analytical Chemistry.
 Felix Kleeberg, Ph. B., Assistant in Analytical Chemistry.
 Percy F. Smith, Ph. B., Instructor in Mathematics.
 Ernest Ellsworth Smith, Ph. B., Assistant in Physiological Chemistry.
 John A. Hartwell, Ph. B., Assistant in Physiological Chemistry.

STORRS AGRICULTURAL SCHOOL.

Location, Mansfield.

Principal, B. F. Koons, Ph. D.

COURSE OF STUDY

This requires three years and leads to no degree.

FACULTY.

B. F. Koons, Ph. D., Principal.
 J. R. Hutton, B. S. A., Professor of Chemistry and Mathematics.
 L. P. Chamberlain, Professor of Agriculture and Farm Superintendent.
 C. S. Phelps, B. S., Associate Professor of Agriculture.
 Miss Josephine Nettleton, Teacher.
 Mrs. C. E. Hilliard, Matron.

DELAWARE.

DELAWARE COLLEGE.

Location, Newark.

President, Albert N. Raub, Ph. D.

COURSES OF STUDY.

The courses of study are five: the Classical and the Latin Scientific Course, each leading to the Degree of Bachelor of Arts; the Course in Modern Languages and Science, leading to the degree of Bachelor of Science; the Course in Engineering and Science, leading to the degree of Civil Engineer, and the Agricultural Course, leading to a certificate of Graduate in Agriculture. The first four courses require four years each for completion and the last three years.

FACULTY.

Albert N. Raub, Ph. D., President, and Professor of Mental, Moral, and Political Science.
 Theodore R. Wolf, Ph. D., Professor of Chemistry, Mineralogy, and Sanitary Science.
 Frederick D. Chester, M. S., Professor of Botany and Geology.
 George A. Harter, M. A., Professor of Mathematics and Physics.
 Charles S. Conwell, M. A., Professor of Ancient and Modern Languages.
 Milton H. Beckwith, Professor of Horticulture and Entomology.
 Charles L. Penny, M. A., Professor of German.
 Lieut. George LeRoy Brown, Professor of Military Science and Commandant of Cadets.

FLORIDA.

FLORIDA STATE AGRICULTURAL AND MECHANICAL COLLEGE.

Location, Lake City.

President, Frank L. Kern, M. A.

COURSES OF STUDY.

The courses of study are two, each requiring four years for completion: the Classical, Literary, and Scientific Course, leading to the degree of Bachelor of Arts, and the Agricultural and Mechanical Course, leading to the degree of Bachelor of Science.

FACULTY.

Frank L. Kern, M. A., President, Professor of Psychology and Natural Science.
 Lieut. Charles G. Morton, U. S. Army, Commandant of Cadets, Professor of Military Science and Tactics.
 William W. Seals, M. A., Professor of English Language, History, and Literature.
 Harry P. Baya, Professor of Mathematics.
 Joseph N. Whitner, M. A., Professor of Latin, Greek, and Agriculture.
 James M. Pickell, Ph. D., Professor of Chemistry and Physics.
 John J. Earle, B. S., Assistant Professor of Chemistry.
 Henry F. A. Kleinschmidt, B. S., Professor of Manual Training and Mechanical Engineering.
 James E. Futch, Librarian.

GEORGIA.

GEORGIA STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS.

Location, Athens. Chancellor, William E. Boggs, D. D., LL. D.

COURSES OF STUDY.

The courses of study requiring four years each for completion, are three: Course for Degree of Bachelor of Agriculture, Course for Degree of Bachelor of Engineering, and Course for Degree of Bachelor of Chemical Science. For graduates to the degree of Bachelor of Engineering a Course for the Degree of Civil Engineering is provided. In the Department of Engineering there is also a partial course known as the Course in Building and Architecture, leading to a certificate of attainments.

FACULTY.

W. E. Boggs, D. D., LL. D., Chancellor and Professor of Ethics and Metaphysics.
 L. H. Charbonnier, Ph. D., Professor of Physics and Astronomy.
 Williams Rutherford, M. A., Emeritus Professor of Mathematics.
 C. P. Willcox, M. A., Professor of Modern Languages.
 H. C. White, C. and M. E., Ph. D., Professor of Chemistry.
 W. H. Bocock, B. Lit., M. A., Professor of Ancient Languages.
 Charles Morris, M. A., Professor of Belles Lettres.
 D. C. Barrow, jr., C. and M. E., Professor of Mathematics and Engineering.
 W. L. Jones, M. A., M. D., Professor of Agriculture.
 John P. Campbell, Ph. D., Professor of Biology.
 C. M. Strahan, C. and M. E., Adjunct Professor of Chemistry.
 A. L. Franklin, M. A., C. and M. E., Adjunct Professor of Ancient Languages.
 C. M. Snelling, B. S., Instructor in Military Tactics and Adjunct Professor of Mathematics and Engineering.

MIDDLE GEORGIA MILITARY AND AGRICULTURAL COLLEGE.

Location, Milledgeville. President, Jesse Colton Lynes, Ph. D.

COURSE OF STUDY.

The course of study is preparatory to the University of Georgia, leading through five classes to certificate of proficiency. Elective and commercial studies are also provided.

FACULTY AND TEACHERS.

Jesse Colton Lynes, Ph. D., President and Professor of Chemistry and Modern Languages.
 Oscar Malcolm Cone, M. A., Professor of Mathematics and Astronomy.
 William Elisha Reynolds, M. A., Professor of Ancient Languages and History.
 Albert LeRoy Cumming, M. A., Professor of English Language and Literature.
 Richard Tyler Crawford, Graduate of South Carolina Military Academy; Commandant of Cadets, Professor of Tactics, Physics, and Botany.
 Miss Gertrude Treanor, Teacher of Vocal and Instrumental Music.
 Miss Nora Treanor, Teacher of Art.
 Miss Helene Louise Pardee, Teacher in Preparatory Department.
 Miss Martha Isabelle Alling, Teacher in Preparatory Department.
 Miss Alice Eva Wright, Teacher in Preparatory Department.
 Miss Carrie Fair, Teacher in Preparatory Department.
 Miss Chester Raford Green, Teacher in Preparatory Department.

NORTH GEORGIA AGRICULTURAL COLLEGE.

Location, Dahlonega. President, William S. Basinger, M. A.

COURSE OF STUDY.

This requires for completion four years in addition to two years of preparatory work, and leads to the degree of Bachelor of Arts. Partial courses are also provided leading to certificates of proficiency.

FACULTY.

William E. Boggs, D. D., Chancellor of University.
 William S. Basinger, M. A., President.
 Benjamin P. Gaillard, M. A., Professor of Natural Science.
 Walter S. Wilson, M. A., Professor of Mathematics.
 Frederick G. Hodgson, First Lieutenant Sixth U. S. Cavalry, Professor of Military Science and French; Commandant of Cadets.
 William W. Legare, M. A., Professor of Ancient Languages and Literature.
 ———, Professor of Stenography, Book-keeping, etc.
 Miss Mary E. Smith, Instructor in English.

SOUTH GEORGIA COLLEGE.

Location, Thomasville.

President, G. M. Lovejoy.

COURSE OF STUDY.

The course of study is preparatory to the University of Georgia, including two years' work of the University grade.

FACULTY.

W. E. Boggs, D. D., Chancellor of the University and *ex officio* the highest officer of this College.
 G. M. Lovejoy, President and Professor of Ancient and Modern Languages.
 F. M. Wright, Professor of Sciences and Mathematics.
 Capt. A. G. Miller, Commandant of Cadets.
 Miss Irene Fisher, Principal of the Preparatory Department.
 Miss Mattie B. Williams, Assistant Principal of the Preparatory Department.
 Miss Mary Laurie, Vocal and Instrumental Music.

SOUTHWEST GEORGIA AGRICULTURAL COLLEGE.

Location, Cuthbert.

President, A. J. Clark.

COURSE OF STUDY.

The course of study is preparatory to the University of Georgia, including two years' work of the University grade.

FACULTY.

A. J. Clark, President, Professor of English and Physics.
 W. D. Hooper, Professor of Latin and Greek.
 L. W. Haskell, Professor of Mathematics and Commandant of Cadets.
 Lotta E. Clark, Teacher in Preparatory Department.
 Maria Freeman, Teacher in Preparatory Department.

WEST GEORGIA AGRICULTURAL AND MECHANICAL COLLEGE.

Location, Hamilton.

President, H. A. Hayes, B. A.

COURSE OF STUDY.

The course of study is preparatory to the University of Georgia.

FACULTY.

H. A. Hayes, B. A., President, Professor of Ancient and Modern Languages and English Literature.
 Rev. W. W. Arnold, M. A., Professor of Natural and Moral Science and Mathematics.
 Mrs. W. W. Arnold, Teacher of Elocution.

ILLINOIS.

COLLEGE OF AGRICULTURE OF THE UNIVERSITY OF ILLINOIS.

Location, Urbana.

Regent, Selim H. Peabody, Ph. D., LL. D.

COURSES OF STUDY.

In the College of Agriculture the courses of study are two: the Agricultural Course, requiring four years for completion and leading to the degree of Bachelor of Science, and the Farmers' Short Course, requiring one year for completion, and leading to no degree.

FACULTY.

Selim H. Peabody, Ph. D., LL. D., Regent.
 George E. Morrow, M. A., Dean, Professor of Agriculture.
 Thomas J. Burrill, Ph. D., Professor of Botany and Horticulture.
 Samuel W. Shattuck, M. A., C. E., Professor of Mathematics.
 Edward Snyder, M. A., Professor of Modern Languages.
 James D. Crawford, Professor of History.
 Nathaniel Butler, jr., M. A., Professor of English Language and Literature.
 Peter Roos, Professor of Industrial Art.
 Arthur W. Palmer, D. Sc., Professor of Chemistry.
 Stephen A. Forbes, Ph. D., Professor of Zoology and Entomology.
 James H. Brownlee, M. A., Professor of Rhetoric and Oratory.
 Donald McIntosh, V. S., Professor of Veterinary Science.
 Charles W. Rolfe, M. S., Professor of Geology.
 Curtis B. Hoppin, Lieutenant U. S. Army, Professor of Military Science.
 George W. Parker, Instructor in Wood Work.

INDIANA.

SCHOOL OF AGRICULTURE, HORTICULTURE, AND VETERINARY SCIENCE OF PURDUE
 UNIVERSITY.

Location, La Fayette.

President, James H. Smart, LL. D.

COURSE OF STUDY.

The course of study requires four years for completion and leads to the degree of Bachelor of Science.

FACULTY OF THE UNIVERSITY.

James H. Smart, LL. D., President.
 William F. M. Goss, Professor of Practical Mechanics.
 Moses C. Stevens, M. A., Professor of Mathematics.
 Oscar J. Craig, M. A., Professor of Political Economy and History.
 James Troop, M. S., Professor of Horticulture and Entomology, and Horticulturist of Experiment Station.
 Albert P. Carman, D. Sc., Professor of Physics and Applied Electricity.
 Arthur L. Green, Ph. C., Dean of School of Pharmacy.
 Ernest Knaufft, Professor of Industrial Art.
 Winthrop A. Stone, Ph. D., Professor of Chemistry.
 Mrs. Emma Mont. McRae, Professor of English Literature and Lady Principal.
 Joseph C. Arthur, D. Sc., Professor of Vegetable Physiology and Pathology, and Botanist of Experiment Station.
 Henry A. Huston, M. A., A. C., Chemist of Experiment Station.
 William H. P. Creighton, U. S. Army, Professor of Mechanical Engineering.
 Alfred E. Phillips, C. E., Professor of Civil Engineering.
 Stanley Coulter, Ph. D., Professor of Biology.
 Theries D. Hinebauch, M. S., V. S., Professor of Veterinary Science and Veterinarian of Experiment Station.
 Anna Von Holland, Instructor in French and German.
 Erastus Test, M. A., M. D., Principal of Preparatory Class.
 Bertha A. Reynolds, Instructor in Elocution.
 Horace E. Stockbridge, Ph. D., Professor of Agriculture and Director of Experiment Station.
 Charles S. Plumb, M. S., Vice-Director of Experiment Station.
 Michael Golden, Instructor in Workshop and Foundry.
 William P. Turner, Instructor in Forging and Machine Work.
 William C. Latta, M. S., Assistant Instructor in Agriculture,
 John Hurty, M. D., Special Lecturer in Pharmacy.

Otto G. Zerse, Ph. C., Special Lecturer in Materia Medica.
 George Spitzer, Ph. C., Assistant Instructor in Pharmacy.
 Annie E. Baker, B. S., Instructor in Wood Carving.
 L. D. Swan, M. A., Librarian.
 William Brady, B. S., Assistant Instructor in Chemistry.
 Dumont Lotz, B. S., Assistant Instructor in Chemistry.
 Clarence L. Cory, B. M. E., Assistant in Physics.
 John L. Stabler, B. S., Assistant in Pharmacy.
 Kate Wentz, B. S., Assistant Instructor in Mathematics.
 Henry L. Bolley, M. S., Assistant Instructor in Biology.

IOWA.

IOWA STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS.
 Location, Ames. President, William I. Chamberlain, LL. D.

COURSES OF STUDY.

The courses of study are five: the Course in Science and Agriculture, leading to the degree of Bachelor of Science; the Course for Ladies, leading to the degree of Bachelor of Letters; the Course in Mechanical Engineering, leading to the degree of Bachelor of Mechanical Engineering; the Course in Civil Engineering, leading to the degree of Bachelor of Civil Engineering; and the course in Veterinary Science, leading to the degree of Doctor of Veterinary Medicine. The last-mentioned course requires three years for completion; each of the others four years.

FACULTY.

William I. Chamberlain, LL. D., President, and Professor of Psychology, Ethics, and Civics.
 Millikan Stalker, M. S., V. S., Professor of Veterinary Science.
 Joseph L. Budd, M. H., Professor of Horticulture.
 Edgar W. Stanton, M. S., Professor of Mathematics and Political Economy.
 David S. Fairchild, M. D., Professor of Pathology, Histology, Therapeutics, and Comparative Anatomy.
 Charles F. Mount, C. E., Professor of Civil Engineering.
 James Rush Lincoln, Lieut. Col. I. N. G., Professor of Military Science and Tactics.
 Alfred A. Bennett, M. S., Professor of Chemistry.
 Herbert Osborn, M. S., Professor of Zoology and Entomology.
 Julius C. Hainer, M. S., M. D., Professor of Physics.
 Allen C. Barrows, D. D., Professor of English Literature, History, and History of Civilization.
 Loren P. Smith, M. S., Professor of Agriculture and Farm Superintendent.
 Miss Lillie M. Gunn, Preceptress, and Professor of French and German.
 Charles W. Scribner, B. A., M. E., Professor of Mechanical Engineering and Drawing.
 Louis H. Pammel, B. Agr., Professor of Botany.
 Mrs. Eliza Owens, Professor of Domestic Economy.
 Miss Cora Marsland, B. O., Librarian and Professor of Elocution.
 Miss Margaret Doolittle, M. A., Instructor in English Composition, Rhetoric, and Latin.
 Miss Eva F. Pike, Organist, and Instructor in Vocal and Instrumental Music.
 August J. Wiechardt, M. E., Foreman and Instructor in Machine Shops.
 Fritz A. Weihe, M. E., Assistant in Drawing.
 Derward B. Bisbee, B. S., Assistant in Chemistry.
 Sofus B. Nelson, D. V. M., House Surgeon in Veterinary Department.
 William R. Shoemaker, B. S., Assistant in Mathematics.
 Non-resident Lecturers:
 Louis Schooler, M. D., Surgical Therapeutics.
 Frank E. Cruttenden, M. D., Ophthalmology.

KANSAS.

KANSAS STATE AGRICULTURAL COLLEGE.

Location, Manhattan. President, George Thompson Fairchild, M. A.

COURSES OF STUDY.

The regular course of study requires four years for completion and leads to the degree of Bachelor of Science. Special and post-graduate courses are also provided. The degree of Master of Science is given upon post-graduate study or satisfactory evidence of proficiency, after three years, in science and industrial arts.

FACULTY AND OTHER OFFICERS.

George Thompson Fairchild, M. A., President and Professor of Logic and Political Economy.

George Henry Failyer, M. S., Professor of Chemistry and Mineralogy.

Edwin Alonzo Popenoe, M. A., Professor of Horticulture and Entomology, and Superintendent of Orchards and Gardens.

William Ashbrook Kellerman, Ph. D., Professor of Botany.

David Ernest Lantz, M. S., Professor of Mathematics and Librarian.

John Daniel Walters, M. S., Professor of Industrial Art and Designing.

Ira Day Graham, B. S., Secretary, Superintendent of Telegraphy, and Instructor in Book-keeping.

Oscar Eugene Olin, Professor of English Language and Literature.

Mrs. Nellie Sawyer Kedzie, M. S., Professor of Household Economy and Hygiene.

Mrs. Elida Esther Winchip, Superintendent of Sewing.

Ozni Porter Hood, B. S., Professor of Mechanics and Engineering, and Superintendent of the Workshops.

Alexander Beethoven Brown, M. A., Professor of Music.

John Sweeney Charles Thompson, Superintendent of Printing.

Lieut. John Frank Morrison, Twentieth United States Infantry, Professor of Military Science and Tactics.

Francis Harding White, B. A., Professor of History and Constitutional Law.

Charles Christian Georgeson, M. S., Professor of Agriculture and Superintendent of Farm.

Claude Mortimer Breese, M. S., Assistant in Chemistry.

William Baxter, Foreman of Greenhouses.

Charles A. Gundaker, Foreman of Iron Shop.

William L. House, Foreman of Wood Shop.

Jennie Chapin Tunnell, B. S., Assistant Librarian.

KENTUCKY.

AGRICULTURAL AND MECHANICAL COLLEGE OF KENTUCKY.

Location, Lexington. President, James Kennedy Patterson, Ph. D.

COURSES OF STUDY.

The regular courses of study are four, requiring four years each for completion: the Agricultural Course, leading to the degree of Bachelor of Science; the Scientific Course, leading to the same degree; the Classical Course, leading to the degree of Bachelor of Arts, and the Engineering Course, leading to the degree of Civil Engineer. Normal courses, requiring from one year to four years, and leading to a diploma, are also provided. Certificates of proficiency are given to those who do not complete a course undertaken.

FACULTY.

James Kennedy Patterson, Ph. D., F. S. A., President and Professor of Metaphysics and Civil History.

Robert Peter, M. D., Emeritus Professor of Chemistry and Experimental Physics.

John Schackleford, M. A., Vice-President, Professor of the English Language and Literature.

James Garrard White, M. A., Professor of Mathematics.
 William Belford Stark, B. S., Professor of Agriculture.
 Merry Lewis Pence, M. S., Professor of Civil Engineering and Mechanical Drawing.
 Henry B. Orr, Ph. D., Professor of Natural History.
 Joseph Hozing Kastle, Ph. D., Professor of General, Organic, and Agricultural Chemistry.
 François Marie Helveti, M. A., Professor of the French and German Languages and Literature.
 John Henry Neville, M. A., Professor of the Latin and Greek Languages and Literature.
 Alex. L. Peterman, B. S., Principal of the Normal School and Professor of Pedagogy.
 Dillard H. Clark, First Lieutenant U. S. Army, Professor of Military Science.
 Walter Kennedy Patterson, Principal of the Academy.
 William Prewitt, B. A., Instructor in Latin and Greek, and Assistant in the Academy.
 J. Lewis Logan, M. A., Assistant in the Academy.
 John Wesley Newman, Assistant in Normal School.
 Mrs. Lucy Berry Blackburn, Matron and Assistant in the Academy.

COMMERCIAL AND PHONOGRAPHIC DEPARTMENT.

Faculty.

Clarence C. Calhoon, Principal.
 Sherman W. Ferris, Assistant.
 A. D. Hines, Assistant.
 D. S. Coffey, Assistant.
 Matt. Walton, Lecturer on Commercial Law.

LOUISIANA.

LOUISIANA STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE.
 Location, Baton Rouge. President, J. W. Nicholson.

COURSES OF STUDY.

The regular courses of study are three, each requiring four years for completion: the Course in Agriculture, the Course in Mechanics and Civil Engineering, and the Literary Course; the first two leading to the degree of Bachelor of Science, the last to the degree of Bachelor of Arts. A Preparatory Department and a two years' Commercial Course are also provided.

FACULTY.

J. W. Nicholson, President and Professor of Mathematics.
 Chas. Chollet, Professor of Greek and Modern Languages.
 W. H. Magruder, Professor of Latin and English.
 H. P. McCain, Commandant of Cadets, and Professor of Civil Engineering.
 A. T. Prescott, Professor of Natural History.
 J. H. Randolph, Professor of Mechanics.
 B. B. Ross, Professor of Chemistry, Mineralogy, and Physics.
 H. A. Morgan, Entomologist and Horticulturist.
 W. H. Dalrymple, Veterinary Surgeon.
 H. Skolfield, Instructor in Book-keeping.
 W. C. Stubbs, Professor of Agriculture and Director of the University Experiment Stations.
 Maurice Bird, Assistant Professor of Agriculture and Assistant Director of Station No. 1.
 D. N. Barrow, Assistant Professor of Agriculture and Director of Station No. 2.
 J. G. Lee, Assistant Professor of Agriculture and Director of Station No. 3.

MAINE.

MAINE STATE COLLEGE OF AGRICULTURE AND THE MECHANIC ARTS.

Location, Orono.

President, Merritt C. Fernald, Ph.D.

COURSES OF STUDY.

Five full courses of study are provided, each requiring four years for completion: a Course in Agriculture, a Course in Chemistry, and a Course in Science and Literature, each leading to the degree of Bachelor of Science; a Course in Civil Engineering, leading to the degree of Bachelor of Civil Engineering; and a Course in Mechanical Engineering, leading to the degree of Bachelor of Mechanical Engineering. Special courses are also provided, leading to certificates.

FACULTY.

Merritt C. Fernald, Ph. D., President and Professor of Physics and Mental and Moral Science.

Alfred B. Aubert, M. S., Professor of Chemistry and Secretary of the Faculty.

Francis L. Harvey, M. S., Professor of Natural History.

George H. Hamlin, C. E., Professor of Civil Engineering.

Allen E. Rogers, M. A., Professor of Modern Languages, Logic, and Political Economy.

Walter Balentine, M. S., Professor of Agriculture.

Walter Flint, M. E., Professor of Mechanical Engineering.

James N. Hart, B. C. E., Instructor in Mathematics and Drawing.

Lieut. Everard E. Hatch, Eighteenth United States Infantry, Professor of Military Science and Tactics.

Howard S. Webb, B. M. E., Instructor in Shop Work, and Registrar.

Fremont L. Russell, D. V. S., Instructor in Veterinary Science.

Fred. P. Briggs, B. S., Assistant in Natural History.

MARYLAND.

MARYLAND AGRICULTURAL COLLEGE.

Location, Agricultural College. President, Henry E. Alvord, C. E.

COURSE OF STUDY.

The course of study requires four years and leads to the degree of Bachelor of Science.

FACULTY.

Henry E. Alvord, C. E., President and Lecturer on Agriculture and History.

Thomas N. Conrad, M. A., M. S., Professor of Agriculture.

Dice McLaren, M. S., B. D., Professor of Natural History.

John D. Hird, M. A., Professor of Chemistry and Registrar *pro tempore*.

William H. Zimmerman, M. A., Professor of Physics and German.

Richard H. Alvey, jr., Professor of Language and Literature.

Lieut. A. B. Scott, U. S. Army, Professor of Military Science and Tactics and Acting Professor of Mathematics.

———, Registrar and Secretary of the Faculty.

MASSACHUSETTS.

MASSACHUSETTS AGRICULTURAL COLLEGE.

Location, Amherst. President, Henry Hill Goodell, M. A.

COURSE OF STUDY.

The course of study requires four years and leads to the degree of Bachelor of Science.

FACULTY.

Henry Hill Goodell, M. A., President, Professor of Modern Languages and English Literature.

Levi Stockbridge, Professor of Agriculture ; Honorary.

Charles Anthony Goessmann, Ph. D., LL. D., Professor of Chemistry.

Samuel Taylor Maynard, B. S., Professor of Botany and Horticulture.

Clarence Duane Warner, B. S., Professor of Mathematics and Physics.

Charles Wellington, Ph. D., Associate Professor of Chemistry.

Charles Henry Fernald, Ph. D., Professor of Zoology and Lecturer on Veterinary Science.

Charles Swan Walker, Ph. D., Professor of Mental and Political Science.

William Penn Brooks, B. S., Professor of Agriculture.

Lester Warren Cornish, First Lieutenant, Fifth Cavalry, U. S. A., Professor of Military Science and Tactics.

Frank Edwin Paige, Lecturer on Farm Law.

George Franklin Mills, M. A., Instructor in English.

Austin Peters, D. V. S., M. R. C. V. S., Lecturer on Hygiene and Care of Stock.

James Breckenridge Paige, V. S., Lecturer on Diseases of Domestic Animals.

BUSSEY INSTITUTION OF HARVARD UNIVERSITY.

Location, Jamaica Plain. President, Charles Wm. Eliot, LL. D.

COURSE OF STUDY.

The course of instruction occupies one year, and if preceded by a preliminary course of one year at the Lawrence Scientific School, or its equivalent, and supplemented by a year of advanced study at the University, leads to the degree of Bachelor of Agriculture.

FACULTY.

Thomas Motley, M. A., Instructor in Farming.

Francis H. Storer, B. S., M. A., Dean and Professor of Agricultural Chemistry.

Benjamin M. Watson, B. A., Instructor in Horticulture.

Nathaniel Thayer Kidder, B. A. S., Instructor in Botany.

Albert H. Tuttle, B. S., M. D., Instructor in Entomology.

Charles S. Sargent, B. A., Director of the Arnold Arboretum.

Luther Edmond Northway, Superintendent of Bussey Farm.

MICHIGAN.

MICHIGAN AGRICULTURAL COLLEGE.

Location, Agricultural College. President, O. Clute, M. S.

COURSES OF STUDY.

The courses of study are two, each requiring four years for completion and leading to the degree of Bachelor of Science: the Agricultural Course and the Mechanical Course. A Post-graduate Course is also provided.

FACULTY.

O. Clute, M. S., President.

Theophilus C. Abbot, LL. D., Professor of Mental Philosophy and Logic.

Robert C. Kedzie, M. A., M. D., Professor of Chemistry and Curator of the Chemical Laboratory.

Albert J. Cook, M. S., Professor of Zoology and Entomology and Curator of the General Museum.

William J. Beal, M. S., Ph. D., Professor of Botany and Forestry and Curator of the Botanical Museum.

Rolla C. Carpenter, M. S., C. E., M. M. E., Professor of Mathematics and Civil Engineering.

E. Davenport, M. S., Professor of Practical Agriculture and Superintendent of the Farm.
 E. P. Anderson, Ph. D., Professor of English Literature and Modern Languages.
 E. A. A. Grange, V. S., Professor of Veterinary Science.
 Wendell L. Simpson, Second Lieutenant, Twenty-fourth United States Infantry, Professor of Military Science and Tactics.
 L. R. Taft, M. S., Professor of Horticulture and Landscape Gardening and Superintendent of the Horticultural Department.
 Henry G. Reynolds, M. S., Secretary.
 W. F. Durand, Ph. D., Professor of Mechanics and Director of the Shops.
 Frank S. Kedzie, M. S., Assistant Professor of Chemistry.
 A. B. Noble, B. A., Assistant Professor of English Literature and Modern Languages.
 William S. Holdsworth, B. S., Assistant Professor of Drawing.
 Phillip B. Woodworth, B. S., Assistant Professor of Physics.
 Henry Thurtell, B. S., Instructor in Mathematics.
 Howard B. Cannon, B. S., Instructor in History.
 Frank H. Hall, B. S., Instructor in Mathematics.
 L. C. Colburn, B. S., Instructor in Mechanics.
 A. B. Cordley, B. S., Assistant in Entomology.
 J. W. Tourney, B. S., Assistant in Botany.
 Miss J. Sinclair, Librarian.
 Justus N. Estabrook, B. S., Assistant Secretary.
 Louis Knapper, Florist.
 A. G. Gulley, M. S., Foreman of Horticultural Department.
 E. A. Burnett, B. S., Assistant on the Farm.
 W. H. Van Dervort, B. S., Foreman of the Iron Shop.
 H. Campbell, Foreman of the Wood Shop.
 Henry Munn, Foreman of the Farm.

MINNESOTA.

COLLEGE OF AGRICULTURE OF THE UNIVERSITY OF MINNESOTA.
 Location, St. Anthony Park. President, Cyrus Northrop, LL. D.

COURSE OF STUDY.

The course of study requires five years for completion and leads to the degree of Bachelor of Agriculture.

FACULTY.

Cyrus Northrop, LL. D., President.
 William Watts Folwell, LL. D., Professor of Political Science.
 Christopher Webber Hall, M. A., Professor of Geology, Mineralogy, and Biology.
 Maria L. Sanford, Professor of Rhetoric and Elocution.
 William A. Pike, B. S., Professor of Engineering and Physics.
 John F. Downey, M. A., C. E., Professor of Mathematics and Astronomy.
 James A. Dodge, Ph. D., Professor of Chemistry.
 ———, Professor of the Theory and Practice of Agriculture.
 George Edwin McLean, Ph. D., Professor of the English Language and Literature.
 Henry Francis Nachtrieb, B. S., Professor of Animal Biology.
 Henry Pratt Judson, M. A., Professor of History.

Officers of the Experiment Station who are also Instructors in the College.

Nelson W. McLain, LL. B., Director.
 Willet M. Hays, B. S. A., Assistant in Agriculture.
 Samuel B. Green, B. S., Horticulturist.
 Otto Luger, Ph. D., Entomologist and Botanist.
 David N. Harper, Ph. B., Chemist.
 Olaf Schwartzkopff, V. M. D., Veterinarian.
 Daniel W. Sprague, Accountant.

STATE SCHOOL OF AGRICULTURE OF THE UNIVERSITY OF MINNESOTA.
Location, St. Anthony Park. Principal, William Wirt Pendergast.

COURSE OF STUDY.

The course of study requires two years for completion and leads to a certificate.

FACULTY.

William Wirt Pendergast, Principal, Physics, Physical Geography, and Mathematics, St. Anthony Park.

Henry Webb Brewster, B. A., Assistant Principal, Chemistry and Mathematics, St. Anthony Park.

Daniel W. Sprague, Penmanship and Accounts, Minneapolis.

Samuel B. Green, B. S., Horticulture and Applied Botany, St. Anthony Park.

Willett M. Hays, B. S. A., Agriculture and Dairying.

Lecturers:

Nelson Wylie McLain, LL. B., Soils, Stock, and Farm Management, St. Anthony Park.

Olaf Schwartzkopff, V. M. D., Animal Physiology and Veterinary Science, St. Anthony Park.

David N. Harper, Ph. B., Agricultural Chemistry, St. Anthony Park.

Charles Rollin Aldrich, Superintendent of Shop Work, Minneapolis.

Otto Lugger, Ph. D., Entomology, St. Anthony Park.

William W. Folwell, LL. D., Political Economy and Civil Government.

William S. Pattee, M. A., Commercial and Farm Law, Minneapolis.

MISSISSIPPI.

AGRICULTURAL AND MECHANICAL COLLEGE OF MISSISSIPPI.
Location, Agricultural College. President, Stephen D. Lee.

COURSE OF STUDY.

The course of study requires four years for completion, and leads to the degree of Bachelor of Science. Post-graduate Courses and a Preparatory Course are also provided.

FACULTY.

Stephen D. Lee, President.

George Christie Creelman, B. S. A., Acting Professor of Biology, Geology, and Veterinarian.

John Henry Connell, B. S., Professor of Agriculture.

Washington Lafayette Hutchinson, B. S., Professor of Chemistry and State Chemist.

William Howard Magruder, M. A., Professor of English and Librarian.

Dabney Lipscomb, M. A., Professor in charge of Preparatory Department.

Lieut. John Vasser White, 1st Artillery, U. S. Army, Professor of Military Science and Tactics, and Associate Professor of Mathematics.

Benjamin W. Saffold, B. S., Acting Professor of Horticulture and Entomology.

Buzz M. Walker, M. S., Professor of Mathematics.

James Monroe White, M. S., Assistant Professor of English.

Theodore Ferme Watson, Secretary and Purchasing Agent.

Ernest Lucien Dimitry, Instructor in Drawing.

Samuel M. Tracy, M. S., Director Experiment Station.

William L. McGee, M. S., Assistant Director of Experiment Station.

John C. Herbert, B. S., Instructor in Preparatory Department.

William Alburtus Fort, B. S., Instructor in Preparatory Department.

John T. Manier, B. S., Instructor in Preparatory Department.

Andrew Maret Maxwell, Instructor in Writing.

William H. Barr, M. D., Surgeon.

ALCORN AGRICULTURAL AND MECHANICAL COLLEGE.

Location, Rodney.

President, John Houston Burrus, M. A.

COURSES OF STUDY.

The courses of study are three: the Academic Course and the Scientific Preparatory Course, each requiring two years for completion, and the Scientific Course requiring four years for completion and leading to the degree of Bachelor of Science.

FACULTY AND OFFICERS.

John Houston Burrus, M. A., President and Professor of Mental and Moral Philosophy and Constitutional Law; also Teacher of Literature.

James Dallas Burrus, M. A., Professor of Mathematics, Geology and Practical Agriculture, and Superintendent of the Farm.

Rev. John Calvin McAdams, B. A., Assistant Professor of English, and Instructor in Book-keeping and Political Economy, and College Pastor.

Joseph Anderson, M. A., Assistant Professor of Natural Science, Instructor in Vocal Music, and Librarian.

Rev. John Wesley Hoffman, B. D., Ph. B., Instructor in Botany, Zoology, etc., and Secretary of the Faculty.

John Adams Martin, B. S., Instructor in English Branches and Writing.

Benjamin Franklin Shannon, B. S., Instructor in English Branches and Writing.

Mrs. Helena Gertrude Barbour, Matron in charge of Boarding Hall.

Wilber Burrell Woodruff, Student Foreman on Farm.

MISSOURI.

AGRICULTURAL AND MECHANICAL SCHOOL OF THE UNIVERSITY OF THE STATE OF MISSOURI.

Location, Columbia. Chairman of Faculty, M. M. Fisher, D. D., LL.D.

COURSES OF STUDY.

The Agricultural College Course requires three years for completion, and leads to the degree of Bachelor of Applied Science. A Special Course in Agriculture of one month's duration is also provided.

FACULTY.

M. M. Fisher, D. D., LL.D., Chairman of Faculty.

Edward D. Porter, Ph. D., Professor of Agriculture and Director of Experiment Station.

Paul Schweitzer, Ph. D., Professor of Chemistry, and in charge of the Chemical work of the Experiment Station.

Paul Paquin, M. D., V. S., Professor of Comparative Medicine and Veterinary Science, and Director of University Experimental and Vaccinal Laboratory.

Thomas Jefferson Lowry, M. S., C. E., Professor of Surveying.

Edward A. Allen, M. A., Professor of English.

William B. Smith, Ph. D., Professor of Mathematics.

George D. Purinton, Ph. D., Professor of Botany and Entomology.

J. W. Clark, B. S., Professor of Horticulture, and in charge of the Horticultural Department of the Experiment Station.

M. L. Lipscomb, M. A., Professor of Physics.

A. C. Vandiver, Farm Superintendent.

NEBRASKA.

INDUSTRIAL COLLEGE OF THE UNIVERSITY OF NEBRASKA.

Location, Lincoln.

President, Charles Edwin Bessey, Ph. D.

COURSES OF STUDY.

The courses of study are as follows, each requiring four years for completion: General Scientific Course, from which the following special courses diverge: Electrical Course, Chemical Course, Course in Agricultural Chemistry, Course in Geology,

Course in Botany, Course in Zoology, Course in Agricultural Biology, and Civil Engineering Course. Graduates of these courses are admitted to the degrees of Bachelor of Science (B. S.), Bachelor of Agriculture (B. Agr.), and Bachelor of Civil Engineering (B. C. E.). A two years' Course in Elementary Agriculture is also provided.

FACULTY.

Charles Edwin Bessey, Ph. D., Acting Chancellor, President *ex officio*, and Professor of Botany and Horticulture.
 Lewis Ezra Hicks, Ph. D., F. G. S. A., Dean, Director of the Experiment Station, and Professor of Geology and Allied Sciences.
 Henry E. Hitchcock, Ph. D., Professor of Mathematics.
 George Elliott Howard, M. A., Professor of History.
 Hudson H. Nicholson, M. A., Professor of Chemistry.
 Lucius A. Sherman, Ph. D., Professor of English Literature.
 Thomas W. Griffith, First Lieutenant Eighteenth United States Infantry, Professor of Military Science and Tactics.
 August Hjalmar Edgren, Ph. D., Professor of Modern Languages.
 Charles Newton Little, Ph. D., Professor of Civil Engineering.
 Hon. Robert W. Furnas, Lecturer on Forestry.
 Howard Walter Caldwell, Ph. B., Associate Professor of History.
 John Sterling Kingsley, D. Sc., Professor of Agriculture and Biology.
 Rachel Lloyd, Ph. D., Professor of Analytical Chemistry.
 Ebenezer W. Hunt, B. A., Associate Professor of Rhetoric and Oratory.
 DeWitt B. Brace, Ph. D., Professor of Physics.
 Laurence Fossler, B. S., Instructor in Modern Languages.
 Amos Griswold Warner, Ph. D., Associate Professor of Political Science, Secretary.
 Harry K. Wolfe, Ph. D., Lecturer on Philosophy.
 Vernon Judson Emery, B. A., Instructor in Latin.
 Bohumil Shimek, C. E., Instructor in Zoology.
 Harold N. Allen, B. S., Instructor in Physics.
 Elton Fulmer, M. A., Instructor in Chemistry.
 Herbert J. Webber, B. S., Assistant in the Botanical Laboratory.

NEVADA.

SCHOOL OF AGRICULTURE OF THE NEVADA STATE UNIVERSITY.

Location, Reno.

President, Stephen A. Jones, Ph. D.

COURSE OF STUDY.

The regular course of study requires four years for completion and leads to the degree of Bachelor of Science. A short course in agriculture is also provided, requiring five months of each year for four years and leading to no degree.

FACULTY.

Stephen A. Jones, Ph. D., President.
 Hannah K. Clapp, M. A., Preceptress and Professor of History and the English Language.
 Walter McN. Miller, B. S., Professor of Comparative Anatomy and Physiology.
 Robert D. Jackson, Ph. B., Professor of Mining and Metallurgy and Acting Professor of Mathematics.
 Kate N. T. Tupper, B. S., Professor of Methods of Instruction and Principal of the Training School.
 First Lient. Arthur C. Ducat, jr., Twenty-fourth United States Infantry, Professor of Military Science and Tactics, Modern Languages, and Drawing.
 W. S. Devol, B. Agr., Professor of Agriculture and Horticulture.
 J. Warne Phillips, D. Sc., Professor of Physics and Chemistry.
 Fred H. Hillman, B. S., Professor of Entomology and Botany.
 William B. Dougherty, Instructor in Book-keeping.

NEW HAMPSHIRE.

NEW HAMPSHIRE COLLEGE OF AGRICULTURE AND THE MECHANIC ARTS.

Location, Hanover. President, Samuel Colcord Bartlett, D. D., LL. D.

COURSES OF STUDY.

The courses of study are two, each requiring four years for completion, and leading to the degree of Bachelor of Science: the Course in Agriculture and Chemistry, and the Course in Mechanical Engineering.

FACULTY.

Samuel Colcord Bartlett, D. D., LL. D., President.

Charles Holmes Pettee, M. A., C. E., Dean, and Professor of Mathematics and Civil Engineering.

Henry Griswold Jesup, M. A., Professor of Natural History.

Clarence Watkins Scott, M. A., Professor of the English Language and Literature.

George Herbert Whitcher, B. S., Professor of Agriculture.

Albert Henry Wood, B. S., Instructor in Agriculture.

Fred Winslow Morse, B. S., Professor of Chemistry.

Charles Lathrop Parsons, B. S., Instructor in Chemistry and Mineralogy.

Albert Kingsbury, M. E., Instructor in Mechanical Engineering and Physics.

Saurin J. Blanpied, M. A., Instructor in Elocution.

John N. Brown, Foreman of Machine Work.

Allen G. Lowell, Foreman of Wood Work.

NEW JERSEY.

RUTGERS SCIENTIFIC SCHOOL OF RUTGERS COLLEGE.

Location, New Brunswick. President, Merrill Edwards Gates, Ph. D., LL. D., L. H. D.

COURSES OF STUDY.

The distinct courses of study are three, each requiring four years for completion and leading to the degree of Bachelor of Science: a Course in Civil Engineering and Mechanics, a Course in Chemistry and Agriculture, and a Course in Electricity. There is also provided a Special Course in Agriculture, occupying two years, and leading to a certificate of attainments.

FACULTY.

Merrill Edwards Gates, Ph. D., LL. D., L. H. D., President and Professor of Moral Philosophy.

———, Vice-President, Professor of Geology and Agriculture.

Theodore Sandford Doolittle, D. D., Professor of Rhetoric, Logic, and Mental Philosophy.

Carl Meyer, D. D., Professor of Modern Languages.

Francis Cuyler Van Dyck, Ph. D., Professor of Physics and Experimental Mechanics.

Edward A. Bowser, C. E., LL. D., Professor of Mathematics and Engineering.

George Benjamin Merriman, M. A., Professor of Mathematics and Astronomy.

Peter Townsend Austen, Ph. D., F. C. S., Professor of General and Applied Chemistry.

Charles Edward Hart, D. D., Professor of the English Language and Literature.

Austin Scott, Ph. D., Professor of History, Political Economy, and Constitutional Law.

Francis Augustus Wilber, M. S., Adjunct Professor of Analytical Chemistry.

Louis Bevier, Ph. D., Adjunct Professor of Modern Languages.

Alfred Alexander Titsworth, M. S., C. E., Professor of Graphics and Mathematics.

Horace Bushnell Patton, Ph. D., Adjunct Professor of Chemical Geology and Mineralogy, and their application in agriculture (Experiment Station).

Julius Nelson, Ph. D., Professor of Biology and its applications in developing food-products (Experiment Station).

Samuel Ewing Smiley, Second Lieutenant, Eighth United States Infantry, Professor of Military Science and Tactics.

Byron David Halsted, D. Sc., Professor of Botany and Horticulture (Experiment Station).

Harry Belknap Boice, M. D., Instructor in Gymnastics.

John Bernhard Smith, Professor of Entomology (Experiment Station).

Martin Nevius Wyckoff, M. A., Adjunct Professor of Physics and Laboratory Assistant.

John DeWitt, jr., B. A., Instructor in Mathematics and Assistant in English Composition.

Irving Strong Upson, M. A., Librarian.

NEW MEXICO.

AGRICULTURAL COLLEGE OF NEW MEXICO.

Location, Las Cruces, Dona Ana County. President, Hiram Hadley, M. A.

COURSES OF STUDY.

These as arranged at present are as follows: Academic and Commercial Course, Scientific and Literary Course, Course in Agriculture and Mechanic Arts, and the Classical Course, Optional. The college was opened January 21, 1890. Additional instructors are to be employed.

FACULTY.

Hiram Hadley, M. A., President, Professor of Mathematics.

Ainsworth E. Blount, M. A., Professor of Horticulture and Agriculture.

Elmer O. Wooton, B. S., Professor of Botany and Chemistry.

John P. Owen, Professor of History and Civics, and Principal of Preparatory Department.

Matilda A. Koehler, Teacher in Elementary Department.

NEW YORK.

COLLEGE OF AGRICULTURE OF CORNELL UNIVERSITY.

Location, Ithaca. President, Charles Kendall Adams, LL. D.

COURSES OF STUDY.

The regular course of study requires four years for completion and leads to the degree of Bachelor of Science in Agriculture. A post-graduate course, leading to the degree of Master of Science in Agriculture, is provided, and special courses are also arranged.

FACULTY.*

Charles Kendall Adams, LL. D., President of the University, Chairman.

George Chapman Caldwell, Ph. D., Professor of Agricultural and Analytical Chemistry.

James Law, F. R. C. V. S., Professor of Veterinary Medicine and Surgery.

Albert Nelson Prentiss, M. S., Professor of Botany, Horticulture and Arboriculture.

Isaac Phillips Roberts, M. Agr., Professor of Agriculture, and Dean of the College of Agriculture.

John Henry Comstock, B. S., Professor of Entomology and General Invertebrate Zoology.

Henry Shaler Williams, Ph. D., Professor of Geology and Paleontology.

Liberty Hyde Bailey, M. S., Professor of General and Experimental Horticulture.

* The number of professors, instructors, and assistants teaching part of the work required of all agricultural students taking a full course is fifty-one. Only those are inserted who are regarded as belonging strictly to the faculty of the College of Agriculture, and whose work may be taken by special students.

NORTH CAROLINA.

THE NORTH CAROLINA COLLEGE OF AGRICULTURE AND MECHANIC ARTS.
Location, Raleigh. President, Alexander Q. Holladay.

COURSE OF STUDY.

The college is of recent organization, and the course of study has not been reported.

FACULTY.

Alexander Q. Holladay, President.
Joseph R. Chamberlain, B. S., Professor of Agriculture, Live Stock and Dairying.
W. F. Massey, C. E., Professor of Horticulture, Arboriculture and Botany.
W. A. Withers, M. A., Professor of Pure and Agricultural Chemistry.
D. H. Hill, M. A., Professor of English and Book-keeping.
J. H. Kinealy, D. E., Professor of Practical Mechanics and Mathematics.
W. E. Weatherly, Assistant Instructor in Practical Mechanics.
B. S. Skinner, Superintendent of Farms and Gardens.

NORTH DAKOTA.

NORTH DAKOTA AGRICULTURAL COLLEGE.
Location, Fargo.

The organization of the college is not yet completed. The following constitute the Board of Directors :

O. W. Francis, President, Fargo.
J. B. Power, Secretary, Drayton.
J. D. Wallace, Drayton.
M. Sanderson, Edgeley.
E. M. Upson, Cumings.
S. S. Lyon, Treasurer, Fargo.

OHIO.

OHIO STATE UNIVERSITY.
Location, Columbus. President, William H. Scott, LL. D.

COURSES OF STUDY.

The general courses of study are three, requiring four years each for completion, and leading, respectively, to the degrees of Bachelor of Arts, Bachelor of Philosophy, and Bachelor of Science. The following technical courses are provided : a Course for the Degree of Bachelor of Agriculture, requiring four years; a Course for the Degree of Doctor of Veterinary Medicine, requiring three years; a Course for the Degree of Civil Engineer, requiring four years; two Courses for the Degree of Mechanical Engineer, each requiring four years, one in Mechanical Engineering and one in Electrical Engineering; a Course for the Degree of Engineer of Mines, requiring four years; a Course for the Degree of Graduate in Pharmacy, requiring three years; a Short Course in Agriculture, requiring two years; and a Short Course in Mining, requiring two years. Provision is also made for post-graduate study leading to degrees, and for preparatory work.

FACULTY.

William H. Scott, LL. D., President, and Professor of Philosophy.
Edward Orton, Ph. D., LL. D., Professor of Geology.
Sidney A. Norton, Ph. D., LL. D., Professor of General and Applied Chemistry
Norton S. Townsend, M. D., Professor of Agriculture.
Stillman W. Robinson, C. E., Professor of Mechanical Engineering.
Nathaniel W. Lord, M. E., Professor of Mining and Metallurgy.
Samuel C. Derby, M. A., Professor of the Latin Language and Literature.

William R. Lazenby, M. Agr., Professor of Botany and Horticulture.
 Josiah R. Smith, M. A., Professor of the Greek Language and Literature.
 Henry A. Weber, Ph. D., Professor of Agricultural Chemistry.
 Benjamin F. Thomas, Ph. D., Professor of Physics.
 George W. Knight, Ph. D., Professor of History and Political Science.
 Henry J. Detmers, M. V. D., Professor of Veterinary Surgery.
 Charles E. Kilbourne, First Lieutenant Second Artillery, United States Army, Professor of Military Science and Tactics, Assistant Professor of Mathematics.
 R. Daniel Bohannon, B. S., C. E., E. M., Professor of Mathematics and Astronomy.
 David S. Kellicott, Ph. D., Professor of Zoology and Comparative Anatomy.
 C. Newton Brown, Associate Professor of Civil Engineering.
 Alice K. Williams, Associate Professor of the French Language and Literature.
 Ernst A. Eggers, Associate Professor of the German Language and Literature.
 George B. Kanffman, B. S., Associate Professor of Pharmacy.
 James Chalmers, Ph. D., Associate Professor of the English Language and Literature.
 John W. Queen, Ph. D., Acting Professor of History and Political Science.
 Benjamin L. Bowen, Ph. D., Acting Assistant Professor of French Language and Literature.
 George W. McCoard, M. A., Assistant Professor of Mathematics.
 Frederick W. Sperr, M. E., Assistant Professor of Mining Engineering.
 Joseph N. Bradford, M. E., Assistant in Drawing and Mechanical Engineering.
 Joseph T. Whitney, Assistant in Physics.
 Frederick Keffer, E. M., Assistant in Chemistry.
 James A. Wilgus, M. A., Assistant in Latin and History.
 Charles P. Sigerfoos, B. S., Assistant in Zoology and Comparative Anatomy.
 Charles W. Mesloh, B. A., Assistant in German.
 Joseph R. Taylor, B. A., Assistant in Drawing.
 Alvin D. Haines, Assistant in Mechanical Engineering.
 William F. Lavery, Assistant in Veterinary Medicine.

OREGON.

OREGON STATE AGRICULTURAL COLLEGE.

Location, Corvallis.

President, Benjamin Lee Arnold, M. A.

COURSE OF STUDY.

The regular course of study requires three years and leads to the degree of Bachelor of Scientific Agriculture.

FACULTY.

Benjamin Lee Arnold, M. A., President, and Professor of English Language.
 Edgar Grimm, B. S., Professor of Agriculture.
 John Davidson Letcher, C. E., Professor of Mathematics and Engineering, and Professor in charge of Military Department.
 Frederic Berchtold, M. A., Professor of Modern Languages, History, and Music.
 William Newell Hull, M. A., Professor of Commercial Law, Free-hand and Perspective Drawing, Elocution, and Book-keeping.
 William Wesley Bristow, B. A., Professor of Bee Culture, Principal of Preparatory Department.
 Edward Ralph Lake, M. S., Professor of Botany and Horticulture.
 Perry Herbert Irish, Ph. D., Professor of Chemistry.
 Margaret Comstock Snell, M. D., Professor of Household Economy and Hygiene.
 Grant Adelbert Covell, M. E., Professor of Mechanics and Mechanical Engineering.
 Frederic Leonard Washburn, B. A., Professor of Zoology and Entomology.
 Willard Dell Bigelow, B. A., Assistant Chemist.

PENNSYLVANIA.

THE PENNSYLVANIA STATE COLLEGE.

Location, State College. President, George W. Atherton, LL. D.

COURSES OF STUDY.

The courses of study are as follows, each requiring four years for completion, unless otherwise specified: General Science Course; Latin Scientific Course; General Course in Agriculture; Advanced Course in Agriculture; Advanced Course in Chemistry; Course in Physics and Electrotechnics; Course in Civil Engineering; Course in Mechanical Engineering; Course in Natural History; Course in Mechanic Arts, requiring three years for completion; Ladies Course in Literature and Science, requiring two years for completion; and Special Course in Chemistry, requiring two years for completion. The General Course in Agriculture leads to the degree of Bachelor of Agriculture; the other four years courses lead to the degree of Bachelor of Science, the diploma containing mention of line of work pursued. Provision is also made for post-graduate study leading to advanced degrees and for preparatory work.

FACULTY.

George W. Atherton, LL. D., President, and Professor of Political and Social Science.
James Y. McKee, M. A., Vice-President, and Professor of English Literature and Mental and Moral Science.

William A. Buckhout, M. S., Professor of Botany and Horticulture.

Charles F. Reeves, M. S., Professor of Modern Languages.

I. Thornton Osmond, M. S., M. A., Professor of Physics.

Josiah Jackson, M. A., Professor of Mathematics.

Louis H. Barnard, C. E., Professor of Civil Engineering.

John W. Heston, M. A., Principal of Preparatory Department and Professor of Pedagogics.

Harriet A. McElwain, M. A., Lady Principal and Instructor in History.

Louis E. Reber, M. S., Professor of Mechanics and Mechanical Engineering.

William Frear, Ph. D., Professor of Agricultural Chemistry, and Secretary of the Faculty.

George Gilbert Pond, Ph. D., Professor of Chemistry.

Silas A. Wolf, First Lieutenant Fourth Infantry, U. S. Army, Professor of Military Science and Tactics.

Edgar F. Davis, M. A., Professor of English and Rhetoric.

John Pemberton, U. S. N., Assistant Professor of Mechanical Engineering.

George C. Butz, M. S., Assistant in Botany and Horticulture.

William H. Caldwell, B. S., Instructor in Agriculture.

Milton W. Bohn, B. A., Assistant in Preparatory Department, Mathematics.

James T. Pyke, M. A., Assistant in Preparatory Department, English and Latin.

Franklin E. Tuttle, B. A., Assistant in Chemical Laboratory.

David A. Center, B. S., Assistant in Physical Laboratory.

Jennie J. Willard, Instructor in Music.

RHODE ISLAND.

BROWN UNIVERSITY.

Location, Providence. President, Elisha Benjamin Andrews, D. D., LL. D.

COURSES OF STUDY.

The courses of study are two, each requiring four years for completion: the Course for the Degree of Bachelor of Arts and the Course for the Degree of Bachelor of Philosophy. Studies in agriculture, forming a portion of the work of the fourth year, are required of students appointed to scholarships afforded by the income of the national grant.

FACULTY.

- Elisha Benjamin Andrews, D. D., LL. D., President, Professor of Moral and Intellectual Philosophy.
- John Larkin Lincoln, LL. D., Professor of the Latin Language and Literature.
- Albert Harkness, Ph. D., LL. D., Professor of the Greek Language and Literature.
- Benjamin Franklin Clarke, M. A., Professor of Mathematics and Civil Engineering.
- John Howard Appleton, M. A., Newport-Rogers Professor of Chemistry.
- Timothy Whiting Bancroft, M. A., Professor of Rhetoric and English Literature.
- Eli Whitney Blake, M. A., Hazard Professor of Physics.
- John Whipple Potter Jenks, M. A., Professor of Agricultural Zoology, and Curator of the Museum.
- Alonzo Williams, M. A., Professor of Modern Languages.
- William Carey Poland, M. A., Associate Professor of Greek, and Curator of the Museum of Classical Archæology.
- Alpheus Spring Packard, M. D., Ph. D., Professor of Zoology and Geology.
- Nathaniel French Davis, M. A., Associate Professor of Mathematics.
- William Whitman Bailey, B. P., Professor of Natural History (Botany), and Curator of the Herbaria.
- Winslow Upton, M. A., Professor of Astronomy, and Secretary of the Faculty.
- Charles Value Chapin, M. D., Professor of Physiology.
- John Franklin Jameson, Ph. D., Professor of History.
- Albert Granger Harkness, M. A., Associate Professor of Latin.
- Otis Everett Randall, M. A., Instructor in Mathematics and Civil Engineering.
- Charles Alfred Potter, Assistant Instructor in Analytical Chemistry.
- Henry Brayton Gardner, M. A., Instructor in Political Economy.
- Andrew McCorrie Warren, M. A., Instructor in Modern Languages.
- John Matteson, B. P., Instructor in Rhetoric and Elocution.

RHODE ISLAND STATE AGRICULTURAL SCHOOL.

Location, Kingston.

President, John H. Washburn, Ph. D.

COURSE OF STUDY.

The school is of recent organization and courses of study are not fully arranged, but will probably include a course in Agriculture and Mechanics, requiring three years for completion and leading to the degree of Bachelor of Agriculture. Partial courses and a winter course will also be provided.

FACULTY.

- John H. Washburn, Ph. D., President, Professor of Chemistry, Dairying, and Science of Government.
- Charles O. Flagg, B. S., Professor of Agriculture and Stock Breeding.
- L. F. Kinney, B. S., Professor of Botany and Horticulture.
- Homer J. Wheeler, Ph. D., Professor of Biology.
- Samuel Cushman, Lecturer on Bee Culture.

SOUTH CAROLINA.

COLLEGE OF AGRICULTURE AND MECHANIC ARTS OF THE UNIVERSITY OF SOUTH CAROLINA.

Location, Columbia. President, John M. McBryde, Ph. D., LL. D.

COURSES OF STUDY.

The regular courses of study are six, each requiring four years for completion, and leading to the degree of Bachelor of Science: Course of General Science; Course of Civil Engineering; Course of Mechanical Engineering; Course of Agriculture; Course of Chemistry; and Course of Natural History. The special courses of study

are four, each requiring two years for completion and leading to a certificate: Shorter Course of General Science; Shorter Course of Applied Science; Shorter Course of Agriculture; Business Course. Elective courses are provided in exceptional cases.

FACULTY.

John M. McBryde, Ph. D., LL. D., President.
 Benjamin Sloan (West Point), Dean and Professor of Physics and Civil Engineering.
 James Woodrow, Ph. D., M. D., D. D., LL. D., Professor of Geology and Mineralogy.
 W. B. Burney, Ph. D., Professor of Chemistry.
 E. S. Joynes, LL.D., Professor of Modern Languages.
 W. J. Alexander, D. D., Professor of Logic and Rhetoric.
 R. M. Davis, B. A., LL.B., Professor of History and Political Science.
 R. H. Loughridge, Ph. D., Professor of Agricultural Chemistry.
 J. W. Flinn, B. A., Professor of Mental and Moral Science.
 F. C. Woodward, M. A., D. L., Professor of English.
 E. W. Davis, Ph. D., Professor of Mathematics and Astronomy.
 Milton Whitney, Professor of Agriculture.
 W. B. Niles, D. V. M., Professor of Veterinary Science.
 J. R. Edwards (Passed Assistant Engineer, U. S. Navy), Professor of Mechanical Engineering.
 E. A. Smyth, jr., B. A., Adjunct Professor of Biology.
 R. J. Davidson, M. A., Assistant Professor of Analytical Chemistry.
 J. J. McMahan, M. A., Instructor in Modern Languages.
 S. R. Pritchard, B. A., Instructor in Mathematics and Book-keeping.
 F. W. Pickel, B. A., Instructor in Bacteriology.
 C. W. Hutson, M. A., Instructor in English.
 Williams Welch, Instructor in Drawing.
 G. B. Green, Instructor in Shop and Machine Work.

CLAFLIN UNIVERSITY, COLLEGE OF AGRICULTURE AND MECHANICS' INSTITUTE.
 Location, Orangeburg. President, Lewis M. Dunton, D. D.

COURSES OF STUDY.

The regular courses of study are ten: the College Classical Course, requiring four years and leading to the degree of Bachelor of Arts; the College Scientific Course, requiring three years and leading to the degree of Bachelor of Science; the College Philosophical Course, requiring three years and leading to the degree of Bachelor of Philosophy; the College Preparatory Course and the Normal Course, each requiring three years and leading to a diploma; the English Course, requiring six years and leading to a certificate; a Kindergarten Course, requiring one year and leading to a certificate; an English Bible Course, requiring four years and leading to a certificate; a Music Course, requiring four years and leading to a certificate; and an Art Course, requiring three years and leading to a certificate. Twenty industrial courses are also provided to be pursued in connection with the courses above.

FACULTY.

Lewis M. Dunton, D. D., President, Professor of Mental and Moral Philosophy, and Lecturer on Agricultural Topics.
 William J. DeTreville, jr., C. E., Professor of Pure and Applied Mathematics.
 James S. Heyward, M. A., Professor of Natural Science.
 William L. Bulkley, B. A., Professor of Latin and German.
 Mrs. Mary E. Dunton, M. A., Preceptress, Professor of Literature, Rhetoric, and French.
 Alonzo G. Townsend, M. A., Professor of Greek and Literature.
 Mortimer Glover, B. A., Professor of History and Political Science.
 C. D. Mead, M. A., Instructor in Methods of Teaching, Principal Grammar School.
 Anton Berg, Professor of Instrumental Music.

Nathaniel T. Spencer, Professor of Vocal Music.
 Henry Pearson, B. A.; Marie L. Walker, Lula Farrow, Eliza R. Bowler, Julia V.
 Cooke, S. R. Youngblood, Instructors.
 Alice L. Jackson, B. A., Principal Kindergarten Department.

SOUTH DAKOTA.

SOUTH DAKOTA AGRICULTURAL COLLEGE.

Location, Brookings. President, Lewis McLouth, Ph. D.

COURSES OF STUDY.

The courses of study are four: a Course in Agriculture; a Course in Domestic Economy; a Course in Mechanic Arts, and a Course in Pharmacy. The first three require four years for completion and lead to the degree of Bachelor of Science; the last requires two years and leads to no degree.

FACULTY.

Lewis McLouth, Ph. D., President, Professor of Astronomy and Physics.
 George Lilley, LL. D., Professor of Mathematics.
 Luther Foster, M. S. A., Professor of Agriculture.
 Stephen G. Updyke, M. S., Professor of English, Elocution, and History.
 Robert F. Kerr, M. A., Professor of Political Economy.
 I. H. Orcutt, M. D., Ph. D., Professor of Zoology, Entomology, and Physiology.
 Stephen P. Lapham, Professor of Music.
 Charles A. Keffer, Professor of Botany, Forestry, and Horticulture.
 Lilla A. Haskins, Professor of Domestic Economy.
 Nellie E. Folsom, B. S., Preceptress, Assistant in English, History, and Language.
 Charles A. Cary, B. S., D. V. M., Professor of Veterinary Science.
 James H. Shepard, M. A., Professor of Chemistry and Assistant Professor of Physics.
 Charles J. Cotey, B. S., Accountant, Instructor in Short-hand, Type-writing, and Telegraphy.
 Robert F. Kerr, Librarian.
 Lewis C. McLouth, B. S., Free-hand Drawing and Instructor in Machine-shop.
 Duston W. McKenney, B. S., Mechanical Drawing, Instructor in Forging.
 James C. Duffey, B. S., Foreman of Horticultural and Forestry Department.
 John M. Aldrich, B. S., Assistant in Entomology.
 Halvor C. Solberg, Instructor in Wood-shop.

Other employés.

William G. Copeland, Foreman of Farm.
 William Lawson, Herdsman.
 Marcus Johnson, Engineer and Steam-fitter.

TENNESSEE.

STATE AGRICULTURAL AND MECHANICAL COLLEGE OF THE UNIVERSITY OF TENNESSEE.

Location, Knoxville. President, Charles William Dabney, jr., Ph. D., LL. D.

COURSES OF STUDY.

The courses of study are seven: Literary Scientific Course; Latin-Scientific Course; Course in Agriculture; Course in Civil Engineering; Course in Mechanical Engineering; Course in Chemistry, and Course in Mining Engineering. The following degrees are conferred: Bachelor of Arts, Bachelor of Science, Bachelor of Philosophy, and Bachelor of Agriculture.

FACULTY.

Charles William Dabney, jr., Ph. D., LL.D., President and Professor of Organic and Agricultural Chemistry.

Thomas W. Jordan, M. A., Dean and Professor of Ancient Languages and Literature.
Kenneth Gordon Matheson, Commandant of Cadets and Assistant Professor of English.

William Waller Carson, C. E., M. E., Professor of Mathematics and Civil Engineering.
———, Professor of Agriculture.

Frank Lamson Scribner, B. S., Professor of Botany and Horticulture.

Theodore F. Burgdorff, Passed Assistant Engineer, U. S. Navy, and Professor of Mechanical Engineering and Physics.

Charles E. Wait, C. E., M. E., Ph. D., Professor of General and Analytical Chemistry and Metallurgy.

Charles W. Kent, Ph. D., Professor of English and Modern Languages.

Edward E. Gayle, First Lieutenant Second Artillery, U. S. Army, Professor of Military Science and Tactics.

Thomas C. Karns, M. A., Associate Professor of the English Language, Literature, and History.

Henry E. Summers, B. S., Associate Professor of Biology and Zoology.

Stonewall Tompkins, Superintendent of Shops.

Cooper D. Schmitt, M. A., Assistant Professor of Mathematics.

S. N. Smith, M. A., Instructor in Ancient Languages.

W. M. Yager, Instructor in Mechanics.

W. R. Ellington, Instructor in Drawing.

H. J. Darnall, Instructor in German.

TEXAS.

STATE AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS.

Location, College Station, Brazos County. Louis Lowry McInnis, M. A., Chairman of College Faculty.

COURSES OF STUDY.

The courses of study are two, each extending through four years: the Agricultural Course, leading by specialization of studies either to the degree of Bachelor of Scientific Horticulture or to the degree of Bachelor of Scientific Agriculture, and the Mechanical Course, leading in a similar way to the degree of Bachelor of Civil Engineering or to the degree of Bachelor of Mechanical Engineering. Post-graduate and special courses are also provided.

FACULTY AND OTHER OFFICERS.

Louis Lowry McInnis, M. A., Chairman, and Professor of Mathematics.

William Lorraine Bringham, Ph. D., Vice-Chairman, and Professor of English and History.

Rudolph Wipprecht, Professor of Language.

Roger Haddock Whitlock, M. E., Professor of Mechanical Engineering.

George Washington Curtis, M. S. A., Professor of Agriculture.

Frank A. Gulley, M. S., Professor of Experimental Agriculture.

Henry Hill Harrington, M. S., Professor of Chemistry and Mineralogy.

Thomas L. Brunk, B. S., Professor of Horticulture and Botany.

Lieut. William Sherley Scott, First Cavalry, U. S. Army, Professor of Military Science and Tactics, and Commandant of Cadets.

Mark Francis, D. V. M., Associate Professor of Veterinary Science.

Friederich Ernst Giesecke, Associate Professor of Drawing.

Charles Puryear, M. A., C. E., Associate Professor of Civil Engineering and Physics.

Robert Franklin Smith, Adjunct Professor of Mathematics.

Rev. Charles Perkins Fountain, Chaplain and Librarian.

Joseph Dotson Read, M. D., Surgeon.

William Benjamin Philpott, Assistant Professor of English.

Duncan Adriance, Assistant Professor of Chemistry.

John Marshall Carson, Assistant Professor of Agriculture.

Herbert Spencer Jennings, Assistant Professor of Horticulture and Botany.

Paul Braun, B. M. E., Assistant Professor of Mechanical Engineering.

John De Lashmutt Fearhake, B. C. E., Instructor in Mathematics and Civil Engineering.

Andrew Michael Guenther, Instructor in Blacksmithing and Foreman of Machine-shop.

Thomas M. Scott, Business Manager.

Edward Walthall Hutchinson, B. C. E., Book-keeper.

Charles Augustus Lewis, Foreman of Carpenter Shop.

John Henderson Alsworth, Foreman of Farm.

Helge Ness, B. S., Foreman of Garden and Greenhouse.

Chandler Epps Barnette, Foreman of Orchard and Vineyard.

UTAH.

AGRICULTURAL COLLEGE OF UTAH.

Location, Logan City.

President, Governor A. L. Thomas.

COURSE OF STUDY.

The course of study has not been arranged, as the organization of the college is not yet completed.

VERMONT.

UNIVERSITY OF VERMONT AND STATE AGRICULTURAL COLLEGE.

Location, Burlington.

President, Matthew H. Buckham, D. D.

COURSES OF STUDY.

In the Department of Agriculture the courses of study are four: the Agricultural Course, requiring four years and leading to a degree; a Short Course in Agriculture, requiring two years; a Winter School of Agriculture, occupying eleven weeks of the winter; and a Winter Course of Lectures to Farmers, without fee for tuition.

FACULTY.

Matthew Henry Buckham, D. D., President and Professor of Political and Social Philosophy.

Volney Giles Barbour, Ph. B., C. E., Professor of Civil Engineering.

George Henry Perkins, Ph. D., Professor of Natural History.

Joseph Knowlton Chickering, M. A., Professor of English Language and Literature, and Elocution.

Nathan Frederick Merrill, Ph. D., Professor of Chemistry.

Archibald Lamont Daniels, D. Sc., Professor of Mathematics and Physics.

Josiah William Votey, C. E., Instructor in Civil Engineering.

Horatio Loomis, Ph. B., Assistant Professor of Chemistry.

Wells Woodbridge Cooke, M. A., Professor of Agriculture.

Lewis Jurey Huff, Instructor in Modern Languages.

Albert Simpson Cummins, First Lieutenant Fourth Artillery U. S. Army, Professor of Military Tactics.

Fred Merritt Corse, Instructor in Mathematics.

Lewis Ralph Jones, Ph. B., Instructor in Natural History.

David Wilder Colby, B. S., Instructor in Agriculture.

Charles Walter Minott, B. S., Instructor in Horticulture.

Joseph Lawrence Hills, B. S., Instructor in Chemistry.

VIRGINIA.

VIRGINIA AGRICULTURAL AND MECHANICAL COLLEGE.

Location, Blacksburg.

President, L. L. Lomax.

COURSES OF STUDY.

The regular courses of study are four, each requiring four years for completion: Course in Agriculture, leading to the degree of Bachelor of Scientific Agriculture; Course in Mechanics, leading to the degree of Mechanical Engineer; General Course, leading to the degree of Bachelor of Science; Course in Civil Engineering, leading to the degree of Civil Engineer. A Business Course is also provided.

FACULTY.

L. L. Lomax, President.

Martin P. Scott, M. D., Professor of Natural History and Veterinary Science.

J. E. Christian, M. A., Professor of Mathematics and Civil Engineering.

J. X. Morton, M. A., Professor of Latin, English Language and Literature, and History.

W. H. Graham, Professor of Book-keeping and Stenography, and College Accountant.

Fielding P. Miles, M. A., Professor of Chemistry and Geology.

James H. Fitts, Professor of Mechanics, Physics, Drawing and Mining Engineering (graduate of the U. S. Naval Academy).

William B. Preston, Professor of Agriculture and Director of Experiment Station.

Theodorick P. Campbell, M. A., Professor of French and German.

Lient. John T. Knight, Third U. S. Cavalry, Instructor in Tactics and Commandant of Cadets.

John Gardner, Treasurer.

W. B. Conway, M. D., College Surgeon.

R. T. Bray, Instructor in Wood Work.

J. H. Coleman, Instructor in Iron Work.

HAMPTON NORMAL AND AGRICULTURAL INSTITUTE.

Location, Hampton.

Principal, Samuel C. Armstrong, LL. D.

COURSE OF STUDY.

The course of study requires three years for completion, and leads to no degree.

FACULTY.

In the Normal Department.

Samuel C. Armstrong, LL.D., Principal, Study of Man and Agricultural Topics.

Rev. Hollis B. Frissell, Pastor and Vice-Principal, Civil Government, Bible Lessons.

Frederick N. Gilman, Treasurer.

Francis C. Briggs, Business Agent.

Martha M. Waldron, M. D., Resident Physician.

Helen S. Baldwin, Librarian.

Mary N. Mead, Assistant Librarian.

Rev. Charles W. Freeland, Commandant.

Mary F. Mackie, Lady Principal, Mathematics.

Helen W. Ludlow, English Literature.

Elizabeth Hyde, Book-keeping and Practice Teacher.

Margaret Kenwill, Elocution and Reading.

Myrtilla J. Sherman, Grammar and Composition.

Jane E. Davis, Mathematics and Natural Philosophy.

Jane S. Worcester, History.

Alice M. Bacon, Civil Government and Political Economy.

Mary E. Coates, History and Writing.

Dora Freeman, Grammar and Composition.

Mary A. Ford, Natural History and Physiology.

Mary R. Hamlin, Geography and Writing.

Anna L. Bellows, Geography and Writing.
 Bernette Batcheler, Arithmetic.
 Emma Johnston, Arithmetic.
 Elizabeth Clark, Arithmetic and Reading.
 Nellie Allen, Reading.
 Mercie A. Allen, Arithmetic.
 Fred G. Rathbun, Music.

In Night School for Work Students.

Anna G. Baldwin, Principal.
 Emma Johnston.
 Abby C. Clapp.
 Mary G. Clark.
 Margretta Cheyney.
 Mary B. Putnam.
 Anna M. Cheyney.
 Alice M. Nichols.
 Alice F. Hotchkin.
 Mabel W. Dillingham.

In the Indian Department.

Josephine E. Richards, in charge.
 Mrs. Lucy Seymour.
 Cora M. Folsom.
 Orie O. Brown.
 Katherine B. Park.
 Mrs. Sarah A. Rand.
 Frances E. Chickering.
 Mary M. Gorton.
 Mrs. I. I. Gorton.
 Clara M. Snow.
 Georgiana Washington.
 Anna H. Johnson, M. D.

In Women's Industrial Department.

Mary T. Galpin, in charge of Sewing and Tailoring.
 Emma Watts, Assistant.
 Jesse Williams, Tailor.
 Bessie Morgan, Teacher of Cooking Class.
 Mary F. Mackie, in charge of Household Work.
 Mrs. Irene H. Stansbury.
 Mrs. H. H. Titlow, Matron.
 Clara Woodward, Laundry.
 Mrs. Ella R. Gore, Housekeeper.
 Charlotte R. Thorn, Housekeeper.
 Evelyn Foote, Laundry.

Men's Industrial Department.

Albert Howe, Superintendent of Blacksmith and Wheelwright Shops, and General Manager of Agriculture.
 George J. Davis, Assistant Normal School Farmer.
 Charles H. Vanison, in charge of Hemenway Farm.
 Elmer O. Goodridge, in charge of Engineering, Machine-shop and Gas-works.
 Charles W. Betts, in charge of Printing Office.
 Joseph H. McDowell, in charge in Indian Workshop, of Carpentering, Painting, Tinning, Harness making, Shoe making, and General Repairs.
 Mary T. Galpin, in charge of Greenhouse.
 Katherine B. Park, in charge of Technical Class.

WEST VIRGINIA.

WEST VIRGINIA UNIVERSITY.

Location, Morgantown.

President, E. M. Turner, LL. D.

COURSES OF STUDY.

The regular undergraduate courses of study are two, each requiring four years for completion: the Bachelor of Arts Course and the Bachelor of Science Course. Post-graduate work and Preparatory work are also provided. In the Department of Civil and Mining Engineering, a four years' course leads to the degree of Civil Engineer.

FACULTY.

E. M. Turner, LL. D., President, Professor of Rhetoric.

———, Professor of Metaphysics.

Robert C. Berkeley, M. A., Professor of Ancient Languages and Literature.

John I. Harvey, M. A., Professor of Modern Languages and Literature.

I. C. White, Ph. D., Professor of Geology.

A. W. Lorentz, M. A., Principal of Preparatory Department.

St. George T. Brooke, LL. D., Professor of Common and Statute Law.

W. P. Willey, M. A., Secretary, Professor of Equity Jurisprudence and History.

A. R. Whitehill, Ph. D., Professor of Agriculture, Chemistry and Physics.

P. B. Reynolds, D. D., Professor of English.

James W. Hartigan, M. A., M. D., Professor of Biology.

Lieut. Edwin S. Avis, Fifth Infantry U. S. Army, Professor of Mathematics and Military Science and Tactics.

Thomas M. Jackson, D. Sc., C. E., Professor of Civil and Mining Engineering.

John A. Myers, Ph. D., Director of the West Virginia Experiment Station.

James S. Stewart, M. S., Assistant Professor of Mathematics.

A. J. Hare, B. A., Assistant in Preparatory Department.

H. G. Stoetzer, B. A., Assistant in Preparatory Department.

WISCONSIN.

COLLEGE OF AGRICULTURE OF THE UNIVERSITY OF WISCONSIN.

Location, Madison.

President, Thomas Chrowder Chamberlin, Ph. D., LL. D.

COURSE OF STUDY.

The course of study in the Department of Agriculture requires four years, leading to the degree of Bachelor of Agriculture.

FACULTY AND OFFICERS.

Thomas Chrowder Chamberlin, Ph. D., LL. D., President.

William Arnon Henry, B. Agr., Director of the Experiment Station and Professor of Agriculture.

Stephen Moulton Babcock, Professor of Agricultural Chemistry and Chief Chemist to the Experiment Station.

Franklin H. King, Professor of Agricultural Physics.

Emmett Stull Goff, Professor of Horticulture and Economic Entomology.

William Henry Morrison, Superintendent of Farmers' Institutes.

Fritz Wilhelm August Woll, M. S., Assistant Chemist.

Leslie H. Adams, Farm Superintendent.

E. M. O'Connell, Instructor in Dairying.

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